





APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/409,681	09/30/1999	KEIICHI SODA	2611-0114P	5738	
7:	590 09/24/2003				
BIRCH STEWART KOLASCH & BIRCH LLP P O BOX 747 FALLS CHURCH, VA 220400747			EXAMINER		
			PHILPOTT, JUSTIN M		
			ART UNIT	PAPER NUMBER	
			2665 DATE MAIL ED: 09/24/2003	1/	

Please find below and/or attached an Office communication concerning this application or proceeding.

19							
		Application No.		Applicant(s)			
Office Action Summary		09/409,681		SODA ET AL.			
		Examiner		Art Unit			
		Justin M Philpott		2665			
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover	sheet with the co	errespondence add	ress		
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a repperiod for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after the mailing displayed by the Office later than three months after th	136(a). In no event, however the statutory mining will apply and will expire Sole, cause the application to	rer, may a reply be time num of thirty (30) days IX (6) MONTHS from t become ABANDONED	ely filed will be considered timely, he mailing date of this con (35 U.S.C. § 133).	ımunication.		
1)⊠	Responsive to communication(s) filed on 24	July 2003 .					
2a)□		his action is non-fin	al.				
3)□	Since this application is in condition for allow closed in accordance with the practice under				merits is		
·	on of Claims						
	Claim(s) <u>1-22</u> is/are pending in the applicatio						
	4a) Of the above claim(s) is/are withdra	awn from considera	tion.				
_	Claim(s) is/are allowed.						
	Claim(s) <u>1-22</u> is/are rejected.						
	Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and/on Papers	or election requirem	nent.				
	The specification is objected to by the Examina	er.					
· _	The drawing(s) filed on is/are: a)□ acce		d to by the Exam	niner.			
	Applicant may not request that any objection to the		-				
11) 🔲 -	The proposed drawing correction filed on						
	If approved, corrected drawings are required in re	eply to this Office action	on.				
12) 🗌 🗆	The oath or declaration is objected to by the Ex	xaminer.					
Priority u	nder 35 U.S.C. §§ 119 and 120						
13)	Acknowledgment is made of a claim for foreig	n priority under 35	U.S.C. § 119(a)	-(d) or (f).			
a)[☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority documen	ts have been receiv	ved.				
	2. Certified copies of the priority documen	ts have been receiv	ved in Applicatio	n No			
* S	3. Copies of the certified copies of the price application from the International Buse the attached detailed Office action for a list	ureau (PCT Rule 17	7.2(a)).		tage		
14)[] A	cknowledgment is made of a claim for domest	tic priority under 35	U.S.C. § 119(e)	(to a provisional a	application).		
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment			55				
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) 🔲 🗆	Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on July 10, 2003 has been entered.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap between the elements. See MPEP § 2172.01. The omitted elements are:

element(s) and/or process(es) within a communication network recited in lines 1-14 (i.e., claim 1 prior to most recent amendment) which provide a result recited in lines 15-18, namely, the result of: "the delay time in transferring the specific information from the slave device

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through the at least one multiplexer to the master device and vice versa is substantially constant from each relay point within the at least one multiplexer".

Specifically, as discussed in the previous office action ("Response to Arguments", first paragraph), Applicant's prior art FIGS. 16-18 teach a master-slave embodiment wherein a slave device transmits specific information for starting communications with a master device used for matching the sampling time in the master device and executes specific computing according to the specified information for returning the specific information from the master device according to the specific information for starting (i.e., lines 9-14 of the amended claim 1). Furthermore, it is noted herein that FIG. 18 teaches a master device (11) and a plurality of slave devices (12) connected to each other through at least one multiplexer (e.g., via 18) in a tree configuration with the master device (11) at the vertex for transmitting and receiving various types of specific information having a fixed length to and from each ones of the plurality of slave devices (12) (i.e., lines 1-6 of the amended claim 1). That is, prior art FIGS. 16-18 teach lines 1-6 and 9-14 of claim 1 (and the remaining lines 7-8 recite a round-robin technique well known in the art as discussed in the previous office action in the fourth paragraph of "Response to Arguments). In the Amendment filed July 10, 2003, Applicant argues (page 23, second paragraph) that the teachings of FIGS. 16-18 do not suggest or disclose an embodiment wherein the delay time for transferring data within the relay point of the multiplexer is substantially constant as presently recited in the amended claim 1 (i.e., lines 15-18). However, in the amended claim 1, Applicant relies on the previously described embodiment to provide the additional result: wherein the delay time for transferring data within the relay point of the multiplexer is substantially constant. Since Applicant has declared that such a result is not possible within the teachings of FIGS. 16Application/Control Number: 09/409,681

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18, it would therefore not be possible to obtain such a result with the embodiment described in lines 1-14 of the amended claim.

Thus, in order to provide the newly recited result, "wherein the delay time in transferring the specific information from the slave device through the at least one multiplexer to the master device and vice versa is substantially constant from each relay point within the at least one multiplexer", additional element(s) and/or process(es) within the communication network described in lines 1-14 would be required according to Applicant since the teachings of FIGS. 16-18 cannot provide the newly recited result in lines 15-18 of the amended claim 1. Accordingly, Applicant may overcome this rejection by amending claim 1 to include such additional element(s) and/or process(es) which would enable the newly recited result (i.e., lines 15-18) of the amended claim 1. For example, Applicant may overcome this rejection by amending claim 1 to include the master-destined information selection unit recited in claim 4.

Claims 2-22 are dependent upon claim 1 and suffer the same deficiencies as that described above regarding claim 1.

Allowable Subject Matter

4. Claims 1-22 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

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Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin M Philpott whose telephone number is 703.305.7357. The examiner can normally be reached on M-F, 9:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy D Vu can be reached on 703.308.6602. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703.305.4750.

Justin M Philpott

SORY PATENT EXAMINER

TECHNOLOGY CENTER 2600